RECEIVED

JUN 0 5 2002

TECH CENTER 1600/2900



SEQUENCE LISTING

H H	MOECKEL, FARWICK, HERMANN, KREUTZER, PFEFFERLE	MIKE THOMA CARC	S LINE										
<120>	NUCLEOTI	DE SE	QUENC	CES COD	ING :	FOR '	THE :	lysR	l GEI	NE			
<130>	20397908	}											
<140>	09/903,770 2001-07-13												
<160>	5												,
<170>	PatentIn	vers	ion 3	3.1									
<210><211><212><212><213>	1 1311 DNA												
<220>	Coryneba	cceri	um gi	lucamic	um								
<221> <221> <222> <223>	CDS (201)(1109)											
<400>	1												
	agg ggcc												60
	cgg aacc												120
attgcca	aag aaac	cttta	a gga	ctagat	c gaa	aaaa	cagc	caad	ctata	igt 1	taagt	aatac	180
	ttt tgga		Val 1	. Leu A	sn Le	eu As 5	en Ai	rg Le	eu Hi	s I	le Le	eu Gln	233
gaa tto Glu Phe	cac cgc His Arg 15	ctg Leu	gga a Gly T	cg att hr Ile	aca Thr 20	gca Ala	gtg Val	gcg Ala	gaa Glu	tcc Ser 25	atg Met	aac Asn	281
tac ago Tyr Ser	cgc tct Arg Ser 30	gcc Ala	atc t Ile S	cc caa Ser Gln 35	caa Gln	atg Met	gcg Ala	ctg Leu	ctg Leu 40	gaa Glu	aaa Lys	gaa Glu	329
att ggt Ile Gly 45	gtg aaa Val Lys	ctc Leu	Phe G	gaa aaa Slu Lys SO	agc Ser	ggc Gly	cga Arg	aac Asn 55	ctc Leu	tac Tyr	ttc Phe	aca Thr	377
gaa caa Glu Gln 60	ggc gaa Gly Glu	Val :	ttg g Leu A 65	cc tca la Ser	gaa Glu	aca Thr	cat His 70	gcg Ala	atc Ile	atg Met	gca Ala	gca Ala 75	425
gtc gac	cat gcc	cac e	aca a	cc att	cta	cat	tca	cta	tat	<i>α</i>			450

Val	Asp	His	Ala	Arg 80	Ala	Ala	Val	Leu	Asp 85	Ser	Leu	Ser	Glu	Val 90	Ser	
								caa Gln 100								521
								gag Glu								569
gaa Glu	atc Ile 125	tcc Ser	caa Gln	cta Leu	gaa Glu	gtc Val 130	acc Thr	gca Ala	gcg Ala	ctc Leu	gaa Glu 135	gaa Glu	ctc Leu	cgc Arg	gcc Ala	617
								gag Glu								665
								gaa Glu								713
								cca Pro 180								761
gaa Glu	ctc Leu	cgc Arg 190	gac Asp	atc Ile	ccc Pro	atc Ile	gcc Ala 195	atc Ile	gat Asp	cca Pro	ccc Pro	gac Asp 200	ctt Leu	ccc Pro	gcg Ala	809
ggc Gly	gaa Glu 205	tgg Trp	gtc Val	cat His	agg Arg	ctc Leu 210	tgc Cys	cgg Arg	cgc Arg	gcc Ala	999 Gly 215	ttt Phe	gag Glu	ccc Pro	cgc Arg	857
gtg Val 220	acc Thr	ttt Phe	gaa Glu	acc Thr	agc Ser 225	gat Asp	ccc Pro	atg Met	ctc Leu	caa Gln 230	gca Ala	cac His	ctc Leu	gtg Val	cgt Arg 235	905
								ccc Pro								953
gaa Glu	agc Ser	gtg Val	cac His 255	atc Ile	cag Gln	ccg Pro	ctg Leu	ccc Pro 260	ggc Gly	aac Asn	ccc Pro	acg Thr	cgc Arg 265	acg Thr	ctc Leu	1001
tac Tyr	acc Thr	gcg Ala 270	gtc Val	agg Arg	gaa Glu	ggg Gly	cgc Arg 275	cag Gln	ggg Gly	cat His	cca Pro	gcc Ala 280	att Ile	aaa Lys	gct Ala	1049
ttt Phe	cga Arg 285	cga Arg	gcc Ala	ctc Leu	gcc Ala	cat His 290	gtg Val	gcc Ala	aaa Lys	gaa Glu	tct Ser 295	tat Tyr	ttg Leu	gag Glu	gct Ala	1097
	cta Leu			tga	gttct	tg 1	tgag	cctt	ca g	acaa	atca	t cg	ccca	gtac		1149

tcgtcgttga	cttcggcgca	cagtacgcgc	agctgatcgc	acgtcgtgtg	cgtgaggccg	1209
gcatctactc	cgaagtcatc	ccgcacaccg	ccaccgcaga	cgatgtgcgc	gctaaaaatg	1269
cagcagccct	cgtcctttcc	ggtggcccat	cctccgtgta	tg		1311

- <210> 2
- <211> 303
- <212> PRT
- <213> Corynebacterium glutamicum

<400> 2

Val Leu Asn Leu Asn Arg Leu His Ile Leu Gln Glu Phe His Arg Leu 1 5 10 15

Gly Thr Ile Thr Ala Val Ala Glu Ser Met Asn Tyr Ser Arg Ser Ala 20 25 30

Ile Ser Gln Gln Met Ala Leu Leu Glu Lys Glu Ile Gly Val Lys Leu 35 40 45

Phe Glu Lys Ser Gly Arg Asn Leu Tyr Phe Thr Glu Gln Gly Glu Val

Leu Ala Ser Glu Thr His Ala Ile Met Ala Ala Val Asp His Ala Arg 65 70 75 80

Ala Ala Val Leu Asp Ser Leu Ser Glu Val Ser Gly Thr Leu Lys Val 85 90 95

Thr Ser Phe Gln Ser Leu Leu Phe Thr Leu Ala Pro Lys Ala Ile Ala 100 105 110

Arg Leu Thr Glu Lys Tyr Pro His Leu Gln Val Glu Ile Ser Gln Leu 115 120 125

Glu Val Thr Ala Ala Leu Glu Glu Leu Arg Ala Arg Arg Val Asp Val 130 135 140

Ala Leu Gly Glu Glu Tyr Pro Val Glu Val Pro Leu Val Glu Ala Ser 145 150 155 160

Ile His Arg Glu Val Leu Phe Glu Asp Pro Met Leu Leu Val Thr Pro

				165					170					175	
Ala	Ser	Gly	Pro 180	Tyr	Ser	Gly	Leu	Thr 185	Leu	Pro	Glu	Leu	Arg 190	Asp	Ile
Pro	Ile	Ala 195	Ile	Asp	Pro	Pro	Asp 200	Leu	Pro	Ala	Gly	Glu 205	Trp	Val	His .
Arg	Leu 210	Cys	Arg	Arg	Ala	Gly 215	Phe	Glu	Pro	Arg	Val 220	Thr	Phe	Glu	Thr
Ser 225	Asp	Pro	Met	Leu	Gln 230	Ala	His	Leu	Val	Arg 235	Ser	Gly	Leu	Ala	Val 240
Thr	Phe	Ser	Pro	Thr 245	Leu	Leu	Thr	Pro	Met 250	Leu	Glu	Ser	Val	His 255	Ile
Gln	Pro	Leu	Pro 260	Gly	Asn	Pro	Thr	Arg 265	Thr	Leu	Tyr	Thr	Ala 270	Val	Arg
Glu	Gly	Arg 275	Gln	Gly	His	Pro	Ala 280	Ile	Lys	Ala	Phe	Arg 285	Arg	Ala	Leu
Ala	His 290	Val	Ala	Lys	Glu	Ser 295	Tyr	Leu	Glu	Ala	Arg 300	Leu	Val	Glu	

<210> 3 <211> 383 <212> DNA <213> Corynebacterium glutamicum

<210> 4

\ZII/	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	synthetic DNA	
<400>	4	
ttccaa	tccc tgctgttcac	20
<210>	5	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	synthetic DNA	
<400>	5	
gtgacct	ttg aaaccagcga	
J J	J ::::::::::::::::::::::::::::::::::::	20

•